

What is claimed is:

1. A receptacle connector with latch arms, which is to be mounted on a counterpart member and to which a plug connector being connected to an electric wire or a flat type flexible cable is to be connected, when a depth direction, a width direction and a thickness direction all being perpendicular to each other are assumed,

the plug connector is, when seen in the thickness direction, substantially a rectangle having the depth direction and the width direction as its two sides, a contact is exposed on at least one face thereof in the thickness direction at the inward edge in the depth direction, and a moving side width fitting face facing outward in the width direction and a moving side depth fitting face facing outward in the depth direction are provided at two locations spaced from each other in the width direction,

the receptacle connector with latch arms comprises

a receptacle connector body having a groove comprising two transverse walls opposing to each other in the thickness direction and a vertical wall present between the two transverse walls, the groove opening outward in the depth direction and into which the inward edge in the depth direction of the plug connector is to be inserted, the receptacle connector body being at least partly insulating,

a conductive contact comprising a contacting part being able to undergo elastic deformation in the thickness direction in the groove of the receptacle connector body to contact the contact of the plug

connector, and a connecting part to be connected to the counterpart member, the contact being provided in an insulating part of the receptacle connector body, and

a pair of latch arms extending outward in the depth direction from two locations being spaced from each other in the width direction on the receptacle connector body and being able to undergo elastic deformation in the width direction,

and each latch arm is provided with a retaining part projecting inward in the width direction, and the retaining part is provided with a guiding part that generates a component force acting outward in the width direction from a pressing force acting on the guiding part from the side opposite to the counterpart member in the thickness direction, a fixed side width fitting face facing inward in the width direction corresponding to the moving side width fitting face of the plug connector, and a fixed side depth fitting face facing inward in the depth direction corresponding to the moving side depth fitting face of the plug connector.

2. The receptacle connector with latch arms as recited in claim 1, wherein the retaining part is, when seen in the thickness direction, substantially a rectangle having the depth direction and the width direction as its two sides, and the retaining part is provided with a portion on its face opposite to the side of the counterpart member, the portion tilting inward in the width direction and coming closer to the counterpart member, and this portion provides the guiding part, or the

corner inward in the width direction and inward in the depth direction of the retaining part is, when seen in the thickness direction, chamfered to provide the guiding part, and the inward end face in the width direction of the retaining part provides the fixed side width fitting face, and the inward end face in the depth direction of the retaining part provides the fixed side depth fitting face.

3. The receptacle connector with latch arms as recited in claim 1, wherein

the surface of the receptacle connector body on the side opposite to the counterpart member is provided by a metallic cover, and

the two latch arms are made of a metal, and the root ends of the respective latch arms are integrally provided on both ends in the width direction of the cover.

4. The receptacle connector with latch arms as recited in claim 2, wherein

the surface of the receptacle connector body on the side opposite to the counterpart member is provided by a metallic cover, and

the two latch arms are made of a metal, and the root ends of the respective latch arms are integrally provided on both ends in the width direction of the cover.

5. The plug connector to be connected to the receptacle connector with latch arms as recited in claim 1, the plug connector

comprising

when a depth direction, a width direction and a thickness direction all being perpendicular to each other are assumed, an insulating plate-shaped plug connector body being, when seen in the thickness direction, substantially a rectangle having the depth direction and the width direction as its two sides, and

the contact having conductivity and being provided on the plug connector body, the contact comprising a contacting part being exposed at the inward edge in the depth direction of the plug connector body at least on one face in the thickness direction thereof and a connecting part to be connected to the electric wire or the flat type flexible cable, and

the moving side width fitting face facing outward in the width direction and the moving side depth fitting face facing outward in the depth direction, the both faces being provided on the plug connector body at two locations spaced from each other in the width direction thereof.

6. The plug connector to be connected to the receptacle connector with latch arms as recited in claim 2, the plug connector comprising

when a depth direction, a width direction and a thickness direction all being perpendicular to each other are assumed, an insulating plate-shaped plug connector body being, when seen in the thickness direction, substantially a rectangle having the depth direction and the

width direction as its two sides, and

the contact having conductivity and being provided on the plug connector body, the contact comprising a contacting part being exposed at the inward edge in the depth direction of the plug connector body at least on one face in the thickness direction thereof and a connecting part to be connected to the electric wire or the flat type flexible cable, and

the moving side width fitting face facing outward in the width direction and the moving side depth fitting face facing outward in the depth direction, the both faces being provided on the plug connector body at two locations spaced from each other in the width direction thereof.

7. The plug connector to be connected to the receptacle connector with latch arms as recited in claim 3, the plug connector comprising

when a depth direction, a width direction and a thickness direction all being perpendicular to each other are assumed, an insulating plate-shaped plug connector body being, when seen in the thickness direction, substantially a rectangle having the depth direction and the width direction as its two sides, and

the contact having conductivity and being provided on the plug connector body, the contact comprising a contacting part being exposed at the inward edge in the depth direction of the plug connector body at least on one face in the thickness direction thereof and a connecting

part to be connected to the electric wire or the flat type flexible cable,
and

the moving side width fitting face facing outward in the width direction and the moving side depth fitting face facing outward in the depth direction, the both faces being provided on the plug connector body at two locations spaced from each other in the width direction thereof.

8. The plug connector to be connected to the receptacle connector with latch arms as recited in claim 4, the plug connector comprising

when a depth direction, a width direction and a thickness direction all being perpendicular to each other are assumed, an insulating plate-shaped plug connector body being, when seen in the thickness direction, substantially a rectangle having the depth direction and the width direction as its two sides, and

the contact having conductivity and being provided on the plug connector body, the contact comprising a contacting part being exposed at the inward edge in the depth direction of the plug connector body at least on one face in the thickness direction thereof and a connecting part to be connected to the electric wire or the flat type flexible cable,
and

the moving side width fitting face facing outward in the width direction and the moving side depth fitting face facing outward in the depth direction, the both faces being provided on the plug connector

body at two locations spaced from each other in the width direction thereof.

9. The plug connector as recited in claim 5, wherein concaved parts concaving in the thickness direction are provided in the corners at both ends in the width direction and outward in the depth direction of the plug connector body, and of the walls constituting these concaved parts, walls facing outward in the width direction provide the moving side width fitting faces and walls facing outward in the depth direction provide the moving side depth fitting faces.

10. The plug connector as recited in claim 6, wherein concaved parts concaving in the thickness direction are provided in the corners at both ends in the width direction and outward in the depth direction of the plug connector body, and of the walls constituting these concaved parts, walls facing outward in the width direction provide the moving side width fitting faces and walls facing outward in the depth direction provide the moving side depth fitting faces.

11. The plug connector as recited in claim 7, wherein concaved parts concaving in the thickness direction are provided in the corners at both ends in the width direction and outward in the depth direction of the plug connector body, and of the walls constituting these concaved parts, walls facing outward in the width direction provide the moving side width fitting faces and walls facing outward in the depth direction

provide the moving side depth fitting faces.

12. The plug connector as recited in claim 8, wherein concaved parts concaving in the thickness direction are provided in the corners at both ends in the width direction and outward in the depth direction of the plug connector body, and of the walls constituting these concaved parts, walls facing outward in the width direction provide the moving side width fitting faces and walls facing outward in the depth direction provide the moving side depth fitting faces.